Maryland
Department of
the Environment

Overview

Proposed Surface Water Discharge Permit
for
Mountain Christian Church WWTP
Application No. 18-DP-3850, NPDES No. MD0072001

Tuesday, July 16, 2019

PROCESS MILESTONES

Receive **Application** (08/23/17)

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Publish **Notice of Application Received** (3/9/18 & 3/16/18 in ***The Aegis***)

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Inquiry from Gunpowder River Keeper for permit application (7/26/18)

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Develop Limits and Draft Permit

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Publish **Notice of Tentative Determination** (4/3/19 & 4/10/19 in ***The Aegis***)

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Hold **Public Hearing & Meeting** (5/9/19)(7/2/19)

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Public Comment Period ← **WE ARE HERE**

NO Substantive Comments → **Permit Issued**

Substantive Comments Received → **Final Determination Published**

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Permit Issued

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Judicial Review (if requested)

FACILITY INFORMATION

Proposed Permit to Authorize
Mountain Christian Church
1824 Mountain Road
Joppa, MD 21085

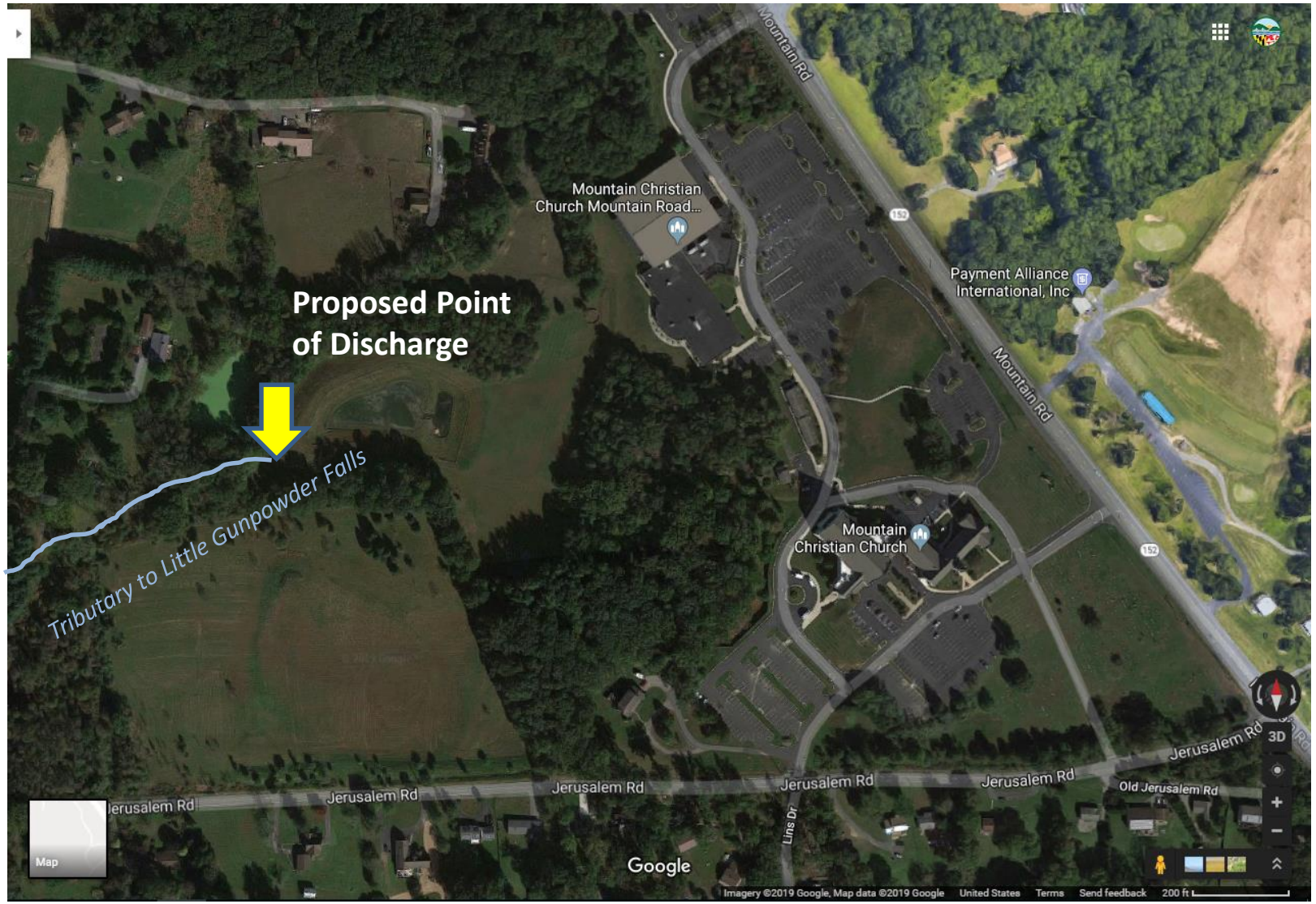
To Discharge from: Mountain Christian Church WWTP

Located at: 1824 Mountain Road
Joppa, Harford County, MD 21085

Through Outfall: 001A (Facility Effluent)

To: Indian Grave Run, a tributary of Little Gunpowder Falls

MAP OF DISCHARGE POINT



PROPOSED DISCHARGE IN PERSEPECTIVE

The flow rate from this permit (2,400 gallons per day) will be equal to **1.7 gallons per minute**.

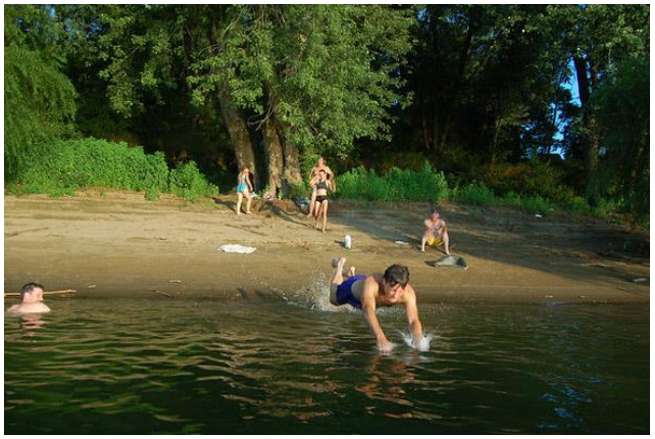
In comparison, a typical ½ inch diameter garden hose attached to a faucet can produce a flow rate of **6 to 24 gallons per minute**.

DESIGNATED **USE III** WATER

The effluent receiving streams are designated as Use III Water to support:

1. Growth and propagation of trout.

2. Water contact recreation.



WATER QUALITY CRITERIA APPLIED

Parameter	Regulations
BOD_5	COMAR 26.08.02.03-3D(2), COMAR 26.08.04.04C(1), COMAR 26.08.01.01B(80), and 40 CFR§133.102.
TSS	COMAR 26.08.02.03-3D(5), COMAR 26.08.02.03-3A(5), COMAR 26.08.04.04C(1), COMAR 26.08.01.01B(80) and 40 CFR§133.102 - §133.105.
TKN	COMAR 26.08.02.03-3D(2).
Ammonia as N*	COMAR 26.08.02.03-2H & COMAR 26.08.02.03-2I and COMAR 26.08.02.05C, COMAR 26.08.02.05D.
Total N	The Chesapeake Bay TMDL
Total P	The Chesapeake Bay TMDL
E. Coli	COMAR 26.08.02.03-3D(1) and COMAR 26.08.02.03-3A(1).
TRC*	COMAR 26.08.02.03-3D(7).
pH	COMAR 26.08.02.03-3D(4) and COMAR 26.08.02.03-3A(4).
Dissolved Oxygen*	COMAR 26.08.02.03-3D(2).
Temperature*	COMAR 26.08.02.03-3D(3).
Flow	COMAR 26.08.04.02A(2). The discharge is consistent with the Harford County water and sewer master plan.

*Use III specific requirements

PROPOSED EFFLUENT LIMITATIONS

Effluent Characteristic	Effluent Limit
BOD_5	6 mg/L monthly avg. & 9 mg/L weekly avg. (5/1 to 10/31) 15 mg/L monthly avg. & 23 mg/L weekly avg. (11/1 to 4/30)
TSS	30 mg/L monthly avg. & 45 mg/L weekly avg.
TKN	2.4 mg/L monthly avg. & 3.6 mg/L weekly avg. (5/1 to 10/31)
Ammonia as N	0.71 mg/L monthly avg. & 2.14 mg/L daily avg. (5/1 to 10/31) 1.0 mg/L monthly avg. & 2.14 mg/L daily avg. (11/1 to 4/30)
Total N	5.0 mg/L annual average concentration
Total P	0.3 mg/L annual average concentration
E. Coli	126 MPN/100 mL monthly geometric mean value
TRC	The use of chlorine is prohibited.
pH	6.5 to 8.5
Dissolved Oxygen	7.0 mg/L at any time
Temperature	20°C (68°F) or ambient temperature, whichever is greater
Flow	2,400 gallons per day

PROPOSED MONITORING REQUIREMENTS

Effluent Characteristic	Sampling Frequency	Sampling Method
BOD_5	One per week	24-hour composite
TSS	One per week	24-hour composite
TKN	One per week	24-hour composite
Ammonia as N	One per week	24-hour composite
Total N	One per week	24-hour composite
Total P	One per week	24-hour composite
E. Coli	One per week	Grab
pH	One per day	Grab
Dissolved Oxygen	One per day	Grab
Temperature	One set per week	Immersion Stabilization
Flow	Continuous	Recorded

CONCLUSION

1. This is the most protective discharge permit (dissolved oxygen, nutrients and temperature…etc.) we have ever considered for a discharge this size.

2. The Department will continue to review all comments received before making the final determination.

CONTACT INFORMATION

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QUESTIONS?